

## Patent Abstracts of Japan

PUBLICATION NUMBER : 11160511  
PUBLICATION DATE : 18-06-99

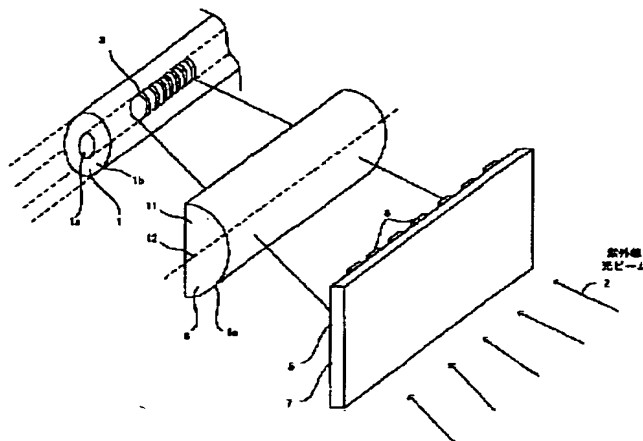
APPLICATION DATE : 21-11-97  
APPLICATION NUMBER : 09321656

APPLICANT : SHOWA ELECTRIC WIRE & CABLE CO  
LTD;

INVENTOR : SUGI KAZUNARI;

INT.CL. : G02B 5/18 G02B 6/10

TITLE : DEVICE AND METHOD FOR  
GENERATING LONG-CYCLE FIBER  
GRATING



ABSTRACT : PROBLEM TO BE SOLVED: To generate the long-cycle fiber grating in an optical fiber in high- precision pattern stably in a short time.

SOLUTION: The optical fiber 1 is irradiated cyclically with an ultraviolet light beam 2 along its length to form the long-cycle fiber grating 3. This device is equipped with a multi-slit mask 5 on which the ultraviolet light beam is made incident and a condenser lens 6 on which the ultraviolet light beam projected from the multi-slit mask is made incident to irradiate the optical fiber.

COPYRIGHT: (C)1999,JPO